This report contains data through the week ending03/23/2013 (MMWR week 12).



Overview of Influenza Surveillance: Surveillance for the 2012-2013 influenza season officially began on September 30, 2012. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah. Data in this report should be considered provisional, and may change as more complete reports are recieved.

Influenza-like Illness (ILI): The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for influenza-like illness (ILI) in outpatient healthcare facilities. ILINet providers report weekly the total number of patients seen for any reason and the number of patients seen with ILI (defined as a fever ≥ 100° F and a cough or sore throat). These data are used to determine the amount of ILI circulating in the community, as well as provide insight into regional differences in ILI activity. Currently, more than 50 facilities throughout Utah participate in ILINet.

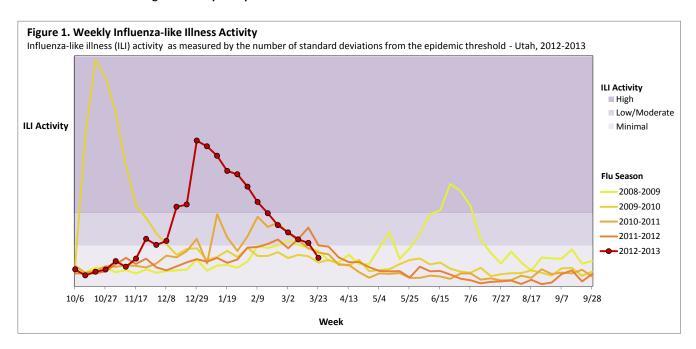


Table 1. Influenza-like Illness (ILI) Activity Levels by Health District - Utah, Current Week

Ticaltii District	Otali, Carrelle Week
Health District	ILI Activity
Bear River	Minimal
Central	Minimal
Davis	Low/Moderate
Salt Lake	Minimal
Southeastern	No Data
Southwest	Minimal
Summit	Minimal
Tooele	Minimal
TriCounty	No Data
Utah	Minimal
Wasatch	Minimal
Weber-Morgan	Minimal
State	Minimal

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Influenza Hospitalizations: Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, or culture test (confirmed case) or a positive rapid influenza diagnostic test (probable case). Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely effected by influenza and help to guide prevention messages and interventions.

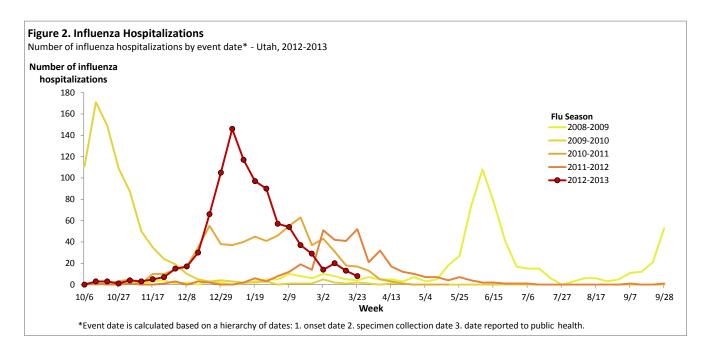


Table 2. Influenza Hospitalizations by Case Status - Utah

	Current Week		Season To Date		
Case Status	Total 9	% of Cases	Total 9	6 of Cases	
Confirmed	8	100.0	885	94.0	
Probable	0	0.0	56	6.0	
Total	8	100.0	941	100.0	

Table 3. Influenza Hospitalizations by Health District - Utah

Health District	Current Week	Season To Date
Bear River	1	48
Central	0	41
Davis	0	69
Salt Lake	3	422
Southeastern	0	3
Southwest	2	102
Summit	0	14
Tooele	0	4
TriCounty	1	15
Utah	1	146
Wasatch	0	4
Weber-Morgan	0	73
State	8	941

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Table 4. Influenza Hospitalizations by Age Group - Utah, Season To Date

Age Group	Total Cases	% of Cases	Rate*
0-4	193	20.5	71.32
5-24	129	13.7	13.63
25-49	117	12.4	11.80
50-64	130	13.8	32.46
65+	372	39.5	150.61
Total	941	100.0	32.95

^{*}Rate is calculated as the number of cases per 100,000 population

Table 5. Influenza Hospitalizations by Sex and Race - Utah, Season To Date

Variab	le	Num. of Cases	% of Cases	% in Utah Pop p value
Sex	Male	463	49.2	50.3 0.500
	Female	478	50.8	49.7 0.500
	Unknown	0	0.0	NA
Race	White, Not Hispanic	756	80.3	82.0 0.174
	Hispanic	118	12.5	11.6 0.361
	Native Hawaiian/Pacific Islander	31	3.3	0.7 < 0.000
	Black/African American	13	1.4	0.9 0.152
	American Indian	2	0.2	1.1 0.007
	Asian	21	2.2	1.9 0.411
	Unknown	0	0.0	NA

^{*}If a p value is \leq 0.05, there is a significant difference between the percentage seen in influenza hospitalizations and the general Utah population.

Table 6. Summary Data for Influenza Hospitalizations - Utah, Season To Date

	Yes Total % of Cases		No Total % of Cases		Unknown Total % of Cases	
Variable						
ICU	141	15.0	717	76.2	83	8.8
Ventilator	55	5.8	806	85.7	80	8.5
Died	32	3.4	826	87.8	83	8.8
Neurological Symptoms	110	11.7	741	78.7	90	9.6
Healthcare Worker	7	0.7	537	57.1	397	42.2
Pregnant	30	3.2	858	91.2	53	5.6
Heart Disorder	283	30.1	576	61.2	82	8.7
Blood Disorder	23	2.4	833	88.5	85	9.0
Kidney Disorder	83	8.8	773	82.1	85	9.0
Metabolic Disorder	232	24.7	626	66.5	83	8.8
Chronic Respiratory Disorder	274	29.1	586	62.3	81	8.6
Immunosuppressed	90	9.6	762	81.0	89	9.5
Neurological Disorder	110	11.7	741	78.7	90	9.6
Seizure Disorder	31	3.3	827	87.9	83	8.8
Bacterial Co-infection	14	1.5	843	89.6	84	8.9
Obese*	125	20.2	203	32.8	290	46.9
Morbidly Obese*	25	4.0	303	49.0	290	46.9
Risk Factor†	858	91.2	83	8.8	0	0.0
Vaccinated	297	31.6	371	39.4	273	29.0

^{*}Obesity and morbid obesity is not considered for individuals under 18 years or pregnant women. Thus total counts will not equal the total number of influenza-associated hospitalizations

[†]Risk factors for influenza include: persons < 5 years, persons ≥ 65 years, pregnant women, and persons with a chronic medical condition.

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Student Absenteeism: School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.

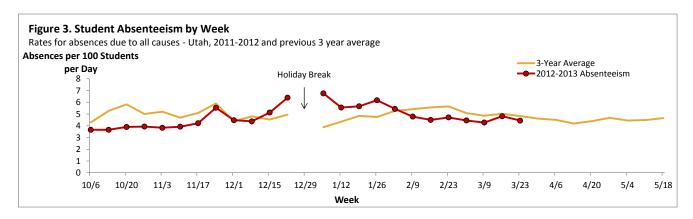
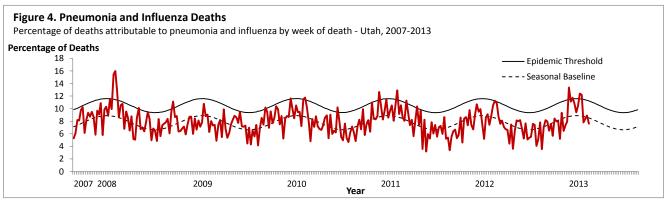


Table 7. Weekly Student Absenteeism - Utah, Current Week

Health District	Absences per 100 students/day
Bear River	3.7
Central	4.2
Davis	4.2
Salt Lake	4.5
Southeast	5.3
Southwest	4.7
Summit	6.0
Tooele	5.5
TriCounty	4.5
Utah	2.2
Wasatch	4.1
Weber-Morgan	5.6
State	4.5

Pneumonia and Influenza Deaths: Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community.



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Laboratory Surveillance: The Unified State Laboratory: Public Health recieves specimens from all over the state for comprehensive influenza testing. All specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.

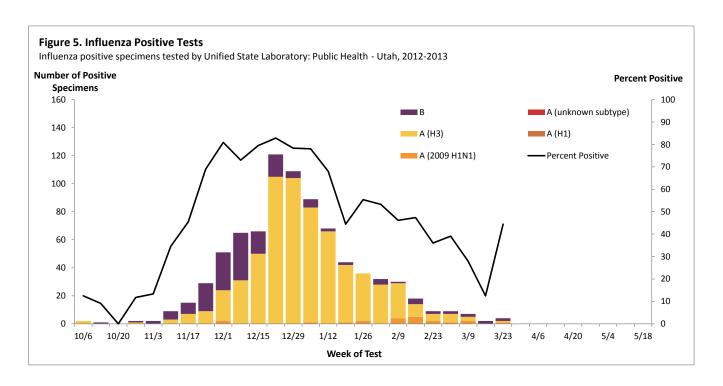


Table 8. Unified State Laboratory: Public Health Influenza Testing Data

	Current \	Current Week		Season To Date	
	Total	Percent	Total	Percent	
Specimens tested	9		1,328		
Positive specimens	4	44.4	820	61.7	
Pos	itive Specimen	s by Type,	/Subtype		
Influenza A	2	50.0	655	79.9	
A (2009 H1N1)	1	50.0	21	3.2	
A (H1)	0	0.0	0	0.0	
A (H3)	1	50.0	634	96.8	
A (unable to subtype)	0	0.0	0	0.0	
Influenza B	2	50.0	165	20.1	